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U.S. PATENT DOCUMENTS

Examiner Initials	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication (MM-DD-YYYY)
	Number	Kind Code (if known)		
<i>JS</i>	3,414,753		Hruda	12/1968
	4,269,032		Meginnis et al.	05/1981
	5,321,951		Falls, et al.	06/1994
	5,363,654		Lee	11/1994
	5,586,866		Wettstein	12/1996
	5,598,697		Ambrogi et al.	02/1997
	5,737,922		Schoenman et al.	4/1998

FOREIGN PATENT DOCUMENTS

Examiner Initials	Foreign Patent Document		Country	Date of Publication (MM-DD-YYYY)	Translation	
	Number	Kind Code (if known)			Yes	no
<i>JS</i>	63-309,732	✓	Japan	12/1988		
<i>JS</i>	849,255	✓	U.K.	09/1960	X	
*	0 698 725	✓	EPO	02/1996		X
<i>JS</i>	0 694 739	✓	EPO	01/1996		X
*	4 430 302	✓	Germany	02/1996		X

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
<i>JS</i>	"A review of heat transfer data for single circular jet impingement", Jambunathan, et al., <i>Int. J. Heat and Fluid Flow</i> , Vol. 13, No. 2, 6/1992, pp. 106-115.
<i>JS</i>	"Evaluation of Internal Heat Transfer Coefficients for Impingement Cooled Turbine Airfoils", Chupp, et al., <i>AIAA 4th Propulsion Joint Specialist Conference</i> , 6/1968.
<i>JS</i>	"Gas Turbine Blade Heat Transfer Augmentation by Impingement of Air Jets Having Various Configurations", Tabakoff, et al., <i>Journal of Engineering for Power</i> , 1/1972, pp. 51-60.
<i>JS</i>	"Heat-Transfer Characteristics of a Single Circular Air Jet Impinging on a Concave Hemispherical Shell", Livingood, et al., NASA Publication TM X-2859, 8/1973.
Examiner Signature	<i>Leonard A. Lee</i>
Date Considered	9/13/02

* substantial duplicate of US Pat. No. 5,586,866 above